

United States Patent and Trademark Office



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/945,258	08/31/2001	Peter H. St. George-Hystop	1034/1H570US1	1969	
7590 03/29/2004		EXAMINER			
DARBY & DARBY P.C.			CARLSON, KAREN C		
805 Third Avenue New York, NY 10022			ART UNIT	PAPER NUMBER	
1.0 1011, 1.1	10022		1653		
			DATE MAILED: 03/29/200	DATE MAILED: 03/29/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

		1			
· · · · · · · · · · · · · · · · · · ·	Application No.	Applicant(s)			
	09/945,258	ST. GEORGE-HYSLOP ET AL.			
Office Action Summary	Examiner	Art Unit			
	Karen Cochrane Carlson, Ph.D.	1653			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period vor Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on <u>08 Description</u>	<u>ecember 2003</u> .				
	action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) Claim(s) 1-23 is/are pending in the application. 4a) Of the above claim(s) 1-9 and 12-16 is/are 5) Claim(s) is/are allowed. 6) Claim(s) 10,11 and 17-23 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o	withdrawn from consideration. r election requirement.				
10) The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Expression of the state o	epted or b) objected to by the l drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	ion No ed in this National Stage			
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 12/01; 10/02.	4) Interview Summary Paper No(s)/Mail Do 5) Notice of Informal F 6) Other:				

Art Unit: 1653

This Office Action is in response to the paper filed December 8, 2003. Claims 1-9 and 12-16 have been withdrawn from further consideration by the Examiner because these claims are drawn to non-elected inventions. Claims 10, 11, and 17-23 are currently under examination.

Priority is to September 1, 2000.

Withdrawal of Objections and Rejections

The objection to the disclosure for lack of sequence identifiers for database accession numbers is withdrawn.

The rejection of Claims 10 and 11 under 35 U.S.C. 102(a) as being anticipated by St. George-Hyslop et al. (USP 6,020,143; issued February 1, 2000) is withdrawn.

The rejection of Claims 10 and under 35 U.S.C. 102(e) as being anticipated by \$t. George-Hyslop et al. (USP 6,383,758; issued May 7, 2002; priority to January 9, 1998) is withdrawn.

The rejection of Claims 10 and 11 under 35 U.S.C. 102(e) as being anticipated by Curtis et al. (WO 01/85912, claiming priority to US Patent Application 09/568,942, filed May 5, 2000) is withdrawn.

Maintenance of Rejections

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Art Unit: 1653

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 10, 11, and new Claims 17-23 are again rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-4 of U.S. Patent No. 6,020,143. Although the conflicting claims are not identical, they are not patentably distinct from each other because Claims 10, 11, and new Claims 17-23 are drawn to a method for identifying a compound that alters PAMP activity by combining PAMP, its substrate, and the compound and determining changes in PAMP activity. Patented Claim 1 is drawn to a method for identifying substances that affect the interaction of presenilin 1 interacting protein and presenilin. Presenilin interacting proteins include PAMP, as noted on page 21 of the instant specification. Presenilin is a substrate for PAMP, as noted on page 3 of the instant specification. Therefore, the instant claims are encompassed by the patented claims.

Claims 10, 11, and new Claims 17-23 are again rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claim 1 of U.S. Patent No. 6,383,758. Although the conflicting claims are not identical, they are not patentably distinct from each other because Claims 10, 11, and new Claims 17-23 are drawn to a method for identifying a compound that alters PAMP activity by combining PAMP, its substrate, and the compound and determining changes in PAMP activity. Patented Claim 1 is drawn to a method for identifying substances that alter the interaction of presenilin binding protein and presenilin. As claimed, presenilin binding protein is not distinguished from PAMP. Presenilin is a substrate for PAMP, as noted on page 3 of the instant specification. Therefore, the instant claims are encompassed by the patented claims.

Applicants argue both double patenting rejections together. Applicants urge that Claim 10 refers to specific amino acid sequences which are not disclosed in '143. The '143 patent

Art Unit: 1653

claims comprise the broad claim language "presentiin interacting protein", which Applicants teach in the specification include PAMP (page 21 of the instant specification). PAMP binds presentiin; thus, it is a presentiin binding protein. Therefore, the patent claims encompass the instant claims, even if specific sequences are set forth.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 10, 11, and new Claims 17-23 are again rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The term presentlin associated membrane protein is indefinite because this term has no functional limitations. Also, it is not clear how the method steps of claim 10 coinside with the preamble of claim 10, that is, it is not clear how a method of determining PAMP activity in the presence of a compound will result in a compound useful for treating neurological disorders.

Applicants urge that the instant amendments to Claim 10 overcome this rejection. The claims still do not recite a function; the term "activity" is not a function. It is not clear how a difference in PAMP activity correlates with a compound for the treatment of neuropsychiatric or neurodevelopmental diseases. More specifically, will an increase or a decrease in PAMP activity be indicative of a compound for the treatment of neuropsychiatric or neurodevelopmental diseases?

Art Unit: 1653

New Rejections

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 10, 11, and new Claims 17-23 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The specification does not describe PAMP proteins having at least 90% identity to SEQ ID NO: 14, 16, or 18 and have indefinite "activity". Thus, the claims lack written description.

No claims are allowed.

Art of Record

WO 00/60069, PCT application of Applicants, having priority to April 1, 1999, teaches the instant invention, including SEQ ID NO: 14, 16, and 18. However, this WO does not designate the US, and thus is not available as art under 35 USC 102(e).

Art Unit: 1653

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karen Cochrane Carlson, Ph.D. whose telephone number is 571-272-0946. The examiner can normally be reached on 7:00 AM - 4:00 PM, off alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dr. Christopher Low can be reached on 571-272-0951. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 872-9306 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1235.

KAREN COCHRANE CARLSON, PH.D. PRIMARY EXAMINER